KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

Report No. : KTH/C.AGG/3865-4925/2013-2014 **Date: 05.03.2014**

TEST REPORT ON AGGREGATE

(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
BBMP, T.Dasarahalli Sub Division,
Bagalagunte, Bangalore.

Name of the Project* : Improvements & Construction of CC Road & Drains & RCC Culverts in MTS colony Main & Cross road R/s in Dasarahalli Ward No.15.

Name of Contractor* : Mr. K.S. Channarayappa

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	86.8	85 to 100	95 to 100	
3	20	22.1	0 to 20	30 to 70	
4	12.5	10.5	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results in %	IS : 383 – 1970 Stipulations
1	Flakiness Index	40	4.33	Not specified
2	Elongation Index	40	5.31	Not specified

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/3865-4924/2013-2014 Date: 05.03.2014

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,** BBMP, T.Dasarahalli Sub Division, Bagalagunte, Bangalore.

Name of the Project* : Improvements & Construction of CC Road & Drains & RCC Culverts in MTS colony Main & Cross road R/s in Dasarahalli Ward No.15.

Name of Contractor* : Mr. K.S. Channarayappa

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single Size for IS: Stipulation of 20mm size Aggregate
2	20	85.5	85 to 100	95 to 100	
3	16	39.2	-	-	
4	10	2.6	0 to 20	25 to 55	
5	4.75	0.4	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index	20	10.14	Not specified
2	Elongation Index	20	13.02	Not specified
3	Crushing Value	20	22.63	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/ST/3865-4926/2013-2014 **Date: 05.03.2014**

TEST REPORT ON STEEL BARS

Name of the Customer*	:	**The Assistant Executive Engineer,** BBMP, T.Dasarahalli Sub Division, Bagalagunte, Bangalore.
Name of the Project*	:	Improvements & Construction of CC Road & Drains & RCC Culverts in MTS colony Main & Cross road R/s in Dasarahalli Ward No.15.
Name of Contractor*	:	Mr. K.S. Channarayappa
Source of Sample	:	Supplied by the Customer.
Nature of Sample*	:	Reinforcement steel – 8mm & 10mm.
Sample Received on	:	24.02.2014.
Technical Reference	:	Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000) Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)
Grade of Steel*	:	Fe-500

TENSILE TEST :

Dia (mm)	8	10	Limits as per IS : 1786-2008, Gr. Fe 415
Weight / unit length (kg/m)	0.402	0.615	8mm – 0.367 Min 10mm – 0.574 Min
0.2% proof Stress (N/mm^2)	537.42	560.51	500 Min
Tensile Strength (N/mm^2)	636.94	662.42	8% More than actual 0.2% proof stress but not less than 545 N/mm2
% Elongation (on 5.65 √AG.L)	25.0	18.5	12.0 Min.

BEND TEST :

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	3 dia	No cracks observed. Passes the test.
2.	10	3 dia	No cracks observed. Passes the test.

REBEND TEST :

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	No cracks observed. Passes the test
2.	10	5 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
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Report No. : KTH/F.AGG/3865-4923/2013-2014

Date: 05.03.2014

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,** BBMP, T.Dasarahalli Sub Division, Bagalagunte, Bangalore.

Name of the Project* : Improvements & Construction of CC Road & Drains & RCC Culverts in MTS colony Main & Cross road R/s in Dasarahalli Ward No.15.

Name of Contractor* : Mr. K.S. Channarayappa

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

SL No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	96.4	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	86.5	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	53.2	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	35.5	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	15.7	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	4.0	0 – 10	0 – 10	0 – 10	0 to 15	

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

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Ref: KTH/CEMENT/2013-2014

Date: 18.03.2014

PHYSICAL TEST REPORT ON CEMENT

Final 28 days

Source of Sample	:	Supplied by Customer.
Type of cement*	:	Ordinary Portland Cement (OPC)
Brand of cement*	:	Birla Super 53 Grade.
Sample Received on	:	17.02.2014
Period of test	:	17.02.2014 to 17.03.2014.
Name of the Customer*	:	**The Assistant Executive Engineer,** BBMP, T.Dasarahalli Sub Division Bagalagunte, Bangalore.
Name of the Project*	:	Improvements & Construction of CC Road & Drains & RCC Culverts in MTS colony Main & Cross road R/s in Dasarahalli Ward No.15.
Name of Contractor*	:	Mr. K.S. Channarayappa.
Technical Reference	:	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30.5 %	Not specified	-
2	Initial setting time	190 minutes	Shall not be less than 30 minutes	P
3	Final setting time	315 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results)			
	a. 72+1h (3 days)	30.11 MPa	Shall not be less than 27.0 MPa	P
	b. 168+2h (7 days)	42.65 MPa	Shall not be less than 37.0 MPa	P
	c. 672+4h (28 days)	58.98 MPa	Shall not be less than 53.0 MPa	P
5	Fineness (By Blaine's air permeability method)	309.76 m^2/kg	Shall not be less than 225m2/kg	P
6	Soundness (Le-chatlier's method)	0.80 mm	Shall not be more than 10 mm	P

* As furnished by the Customer

P: Passes IS requirement F: Fails IS requirement

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